FIG. 4

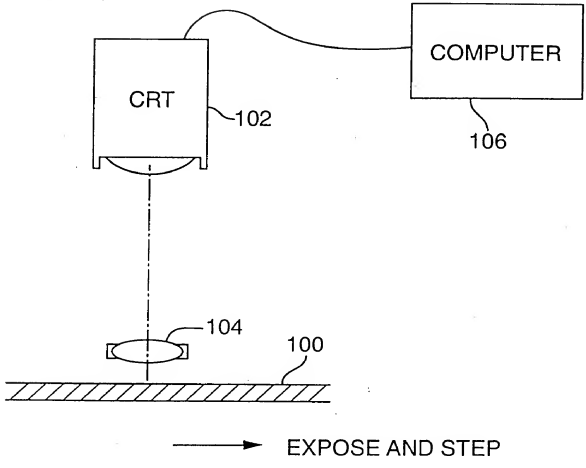

COMPUTER
CRT
102
106
104
100
EXPOSE AND STEP

FIG. 1

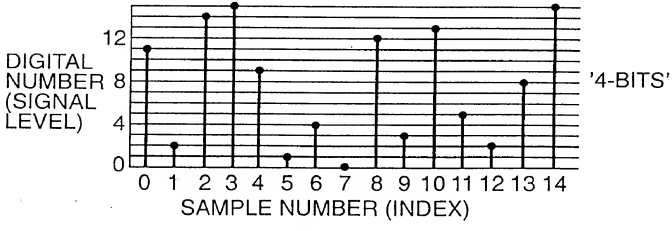

DIGITAL NUMBER (SIGNAL LEVEL)
12
8
4
0
'4-BITS'
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
SAMPLE NUMBER (INDEX)

FIG. 2

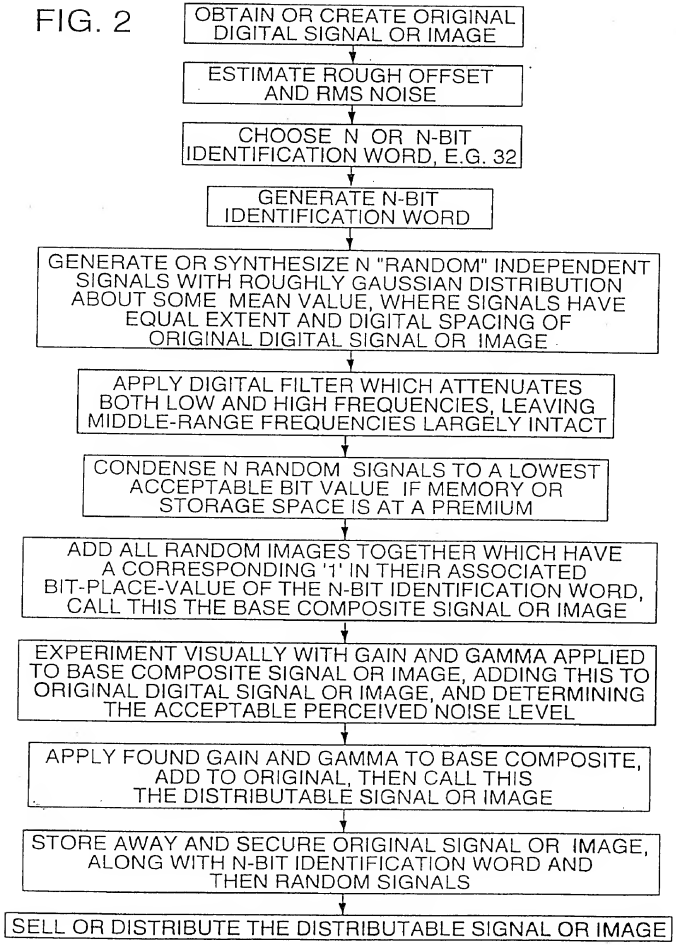

OBTAIN OR CREATE ORIGINAL DIGITAL SIGNAL OR IMAGE
ESTIMATE ROUGH OFFSET AND RMS NOISE
CHOOSE N OR N-BIT IDENTIFICATION WORD, E.G. 32
GENERATE N-BIT IDENTIFICATION WORD
GENERATE OR SYNTHESIZE N "RANDOM" INDEPENDENT SIGNALS WITH ROUGHLY GAUSSIAN DISTRIBUTION ABOUT SOME MEAN VALUE, WHERE SIGNALS HAVE EQUAL EXTENT AND DIGITAL SPACING OF ORIGINAL DIGITAL SIGNAL OR IMAGE
APPLY DIGITAL FILTER WHICH ATTENUATES BOTH LOW AND HIGH FREQUENCIES, LEAVING MIDDLE-RANGE FREQUENCIES LARGELY INTACT
CONDENSE N RANDOM SIGNALS TO A LOWEST ACCEPTABLE BIT VALUE IF MEMORY OR STORAGE SPACE IS AT A PREMIUM
ADD ALL RANDOM IMAGES TOGETHER WHICH HAVE A CORRESPONDING '1' IN THEIR ASSOCIATED BIT-PLACE-VALUE OF THE N-BIT IDENTIFICATION WORD, CALL THIS THE BASE COMPOSITE SIGNAL OR IMAGE
EXPERIMENT VISUALLY WITH GAIN AND GAMMA APPLIED TO BASE COMPOSITE SIGNAL OR IMAGE, ADDING THIS TO ORIGINAL DIGITAL SIGNAL OR IMAGE, AND DETERMINING THE ACCEPTABLE PERCEIVED NOISE LEVEL
APPLY FOUND GAIN AND GAMMA TO BASE COMPOSITE, ADD TO ORIGINAL, THEN CALL THIS THE DISTRIBUTABLE SIGNAL OR IMAGE
STORE AWAY AND SECURE ORIGINAL SIGNAL OR IMAGE, ALONG WITH N-BIT IDENTIFICATION WORD AND THEN RANDOM SIGNALS
SELL OR DISTRIBUTE THE DISTRIBUTABLE SIGNAL OR IMAGE

FIG. 3

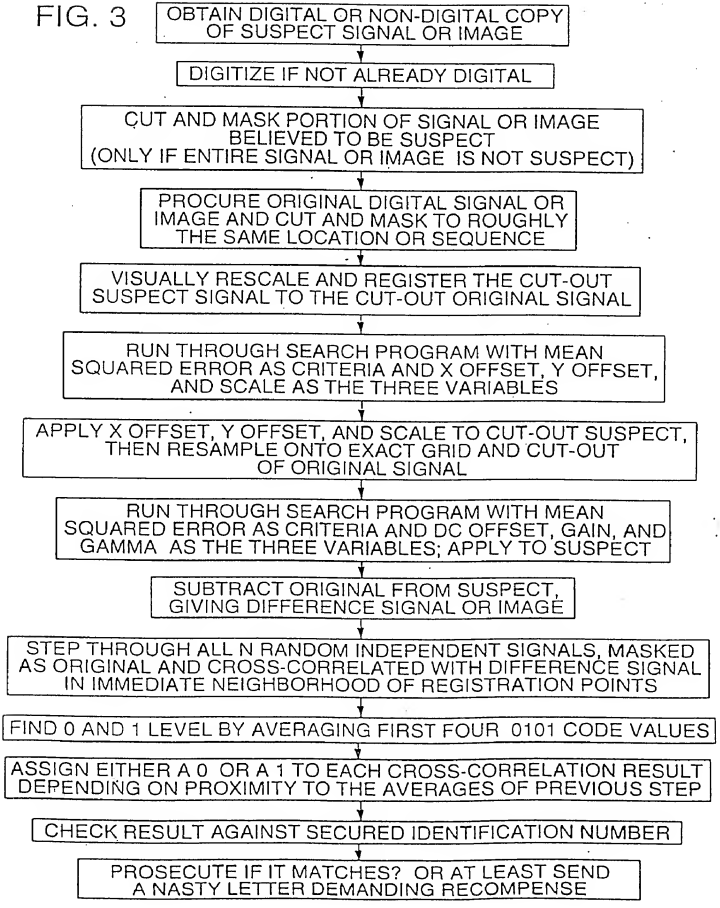

OBTAIN DIGITAL OR NON-DIGITAL COPY OF SUSPECT SIGNAL OR IMAGE
DIGITIZE IF NOT ALREADY DIGITAL
CUT AND MASK PORTION OF SIGNAL OR IMAGE BELIEVED TO BE SUSPECT (ONLY IF ENTIRE SIGNAL OR IMAGE IS NOT SUSPECT)
PROCURE ORIGINAL DIGITAL SIGNAL OR IMAGE AND CUT AND MASK TO ROUGHLY THE SAME LOCATION OR SEQUENCE
VISUALLY RESCALE AND REGISTER THE CUT-OUT SUSPECT SIGNAL TO THE CUT-OUT ORIGINAL SIGNAL
RUN THROUGH SEARCH PROGRAM WITH MEAN SQUARED ERROR AS CRITERIA AND X OFFSET, Y OFFSET, AND SCALE AS THE THREE VARIABLES
APPLY X OFFSET, Y OFFSET, AND SCALE TO CUT-OUT SUSPECT, THEN RESAMPLE ONTO EXACT GRID AND CUT-OUT OF ORIGINAL SIGNAL
RUN THROUGH SEARCH PROGRAM WITH MEAN SQUARED ERROR AS CRITERIA AND DC OFFSET, GAIN, AND GAMMA AS THE THREE VARIABLES; APPLY TO SUSPECT
SUBTRACT ORIGINAL FROM SUSPECT, GIVING DIFFERENCE SIGNAL OR IMAGE
STEP THROUGH ALL N RANDOM INDEPENDENT SIGNALS, MASKED AS ORIGINAL AND CROSS-CORRELATED WITH DIFFERENCE SIGNAL IN IMMEDIATE NEIGHBORHOOD OF REGISTRATION POINTS
FIND 0 AND 1 LEVEL BY AVERAGING FIRST FOUR 0101 CODE VALUES
ASSIGN EITHER A 0 OR A 1 TO EACH CROSS-CORRELATION RESULT DEPENDING ON PROXIMITY TO THE AVERAGES OF PREVIOUS STEP
CHECK RESULT AGAINST SECURED IDENTIFICATION NUMBER
PROSECUTE IF IT MATCHES? OR AT LEAST SEND A NASTY LETTER DEMANDING RECOMPENSE

FIG. 5

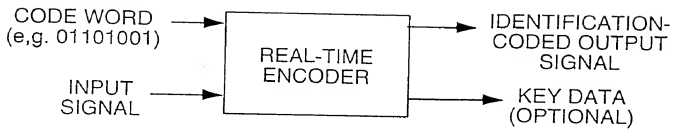
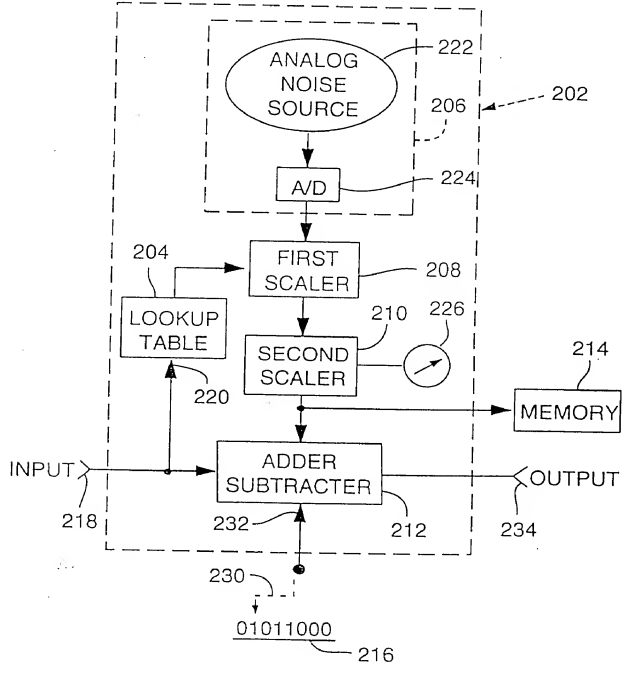

CODE WORD
(e,g. 01101001)
INPUT
SIGNAL
REAL-TIME
ENCODER
IDENTIFICATION-
CODED OUTPUT
SIGNAL
KEY DATA
(OPTIONAL)

FIG. 6


ANALOG
NOISE
SOURCE
222
202
206
A/D
224
204
FIRST
SCALER
208
LOOKUP
TABLE
210
226
SECOND
SCALER
214
220
MEMORY
INPUT
ADDER
SUBTRACTER
OUTPUT
218
232
212
234
230
01011000
216

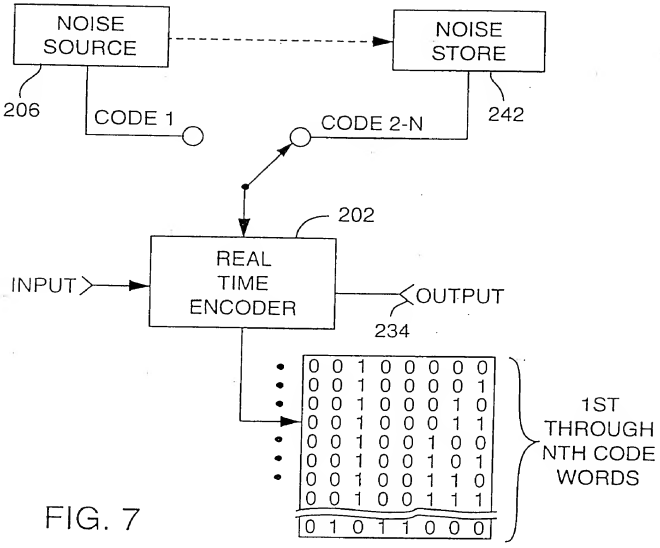

NOISE SOURCE
NOISE STORE
206
CODE 1
CODE 2-N
242
202
REAL TIME ENCODER
INPUT
OUTPUT
234
0 0 1 0 0 0 0 0
0 0 1 0 0 0 0 1
0 0 1 0 0 0 1 0
0 0 1 0 0 0 1 1
0 0 1 0 0 1 0 0
0 0 1 0 0 1 0 1
0 0 1 0 0 1 1 0
0 0 1 0 0 1 1 1
0 1 0 1 1 0 0 0
1ST THROUGH NTH CODE WORDS

FIG. 7

FIG. 8

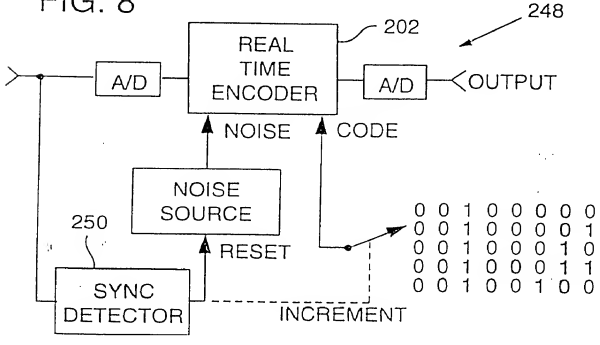

248
202
REAL TIME ENCODER
A/D
A/D
OUTPUT
NOISE
CODE
NOISE SOURCE
250
RESET
SYNC DETECTOR
INCREMENT
0 0 1 0 0 0 0 0
0 0 1 0 0 0 0 1
0 0 1 0 0 0 1 0
0 0 1 0 0 0 1 1
0 0 1 0 0 1 0 0

FIG. 9A

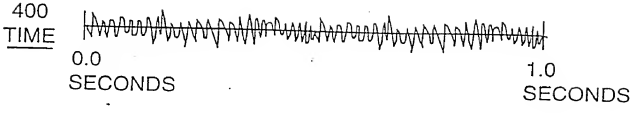


FIG. 9B

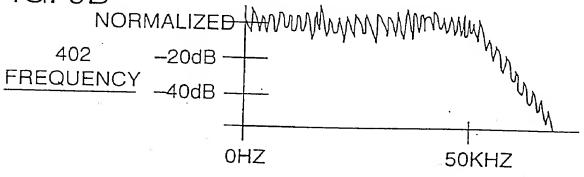


FIG. 9C

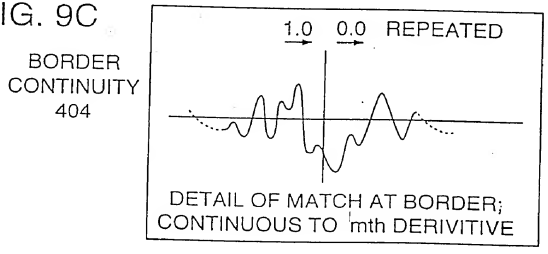


FIG. 10

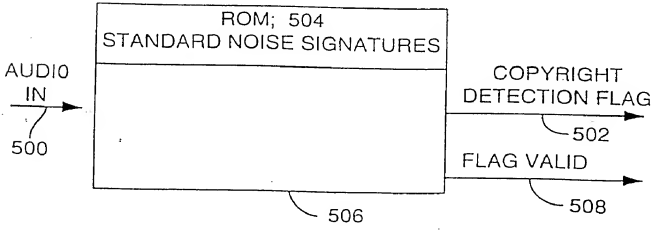


FIG. 11

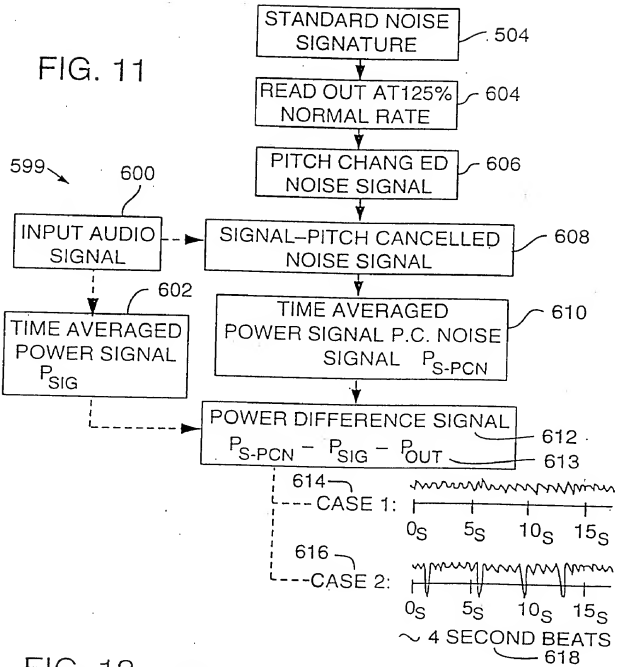

STANDARD NOISE SIGNATURE
504
READ OUT AT125% NORMAL RATE
604
PITCH CHANG ED NOISE SIGNAL
606
599
600
INPUT AUDIO SIGNAL
SIGNAL–PITCH CANCELLED NOISE SIGNAL
608
602
TIME AVERAGED POWER SIGNAL P_{SIG}
TIME AVERAGED POWER SIGNAL P.C. NOISE SIGNAL P_{S-PCN}
610
POWER DIFFERENCE SIGNAL
$P_{S-PCN} - P_{SIG} - P_{OUT}$
612
613
614
CASE 1:
0_S 5_S 10_S 15_S
616
CASE 2:
0_S 5_S 10_S 15_S
4 SECOND BEATS
618

FIG. 12

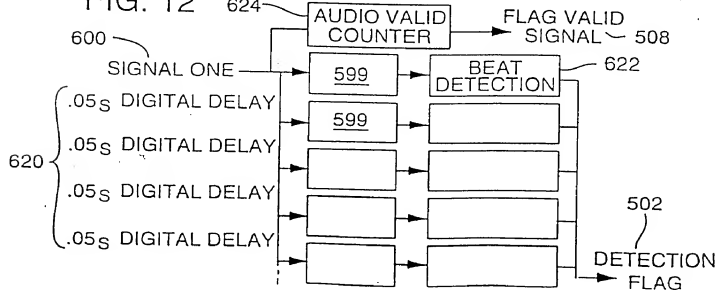
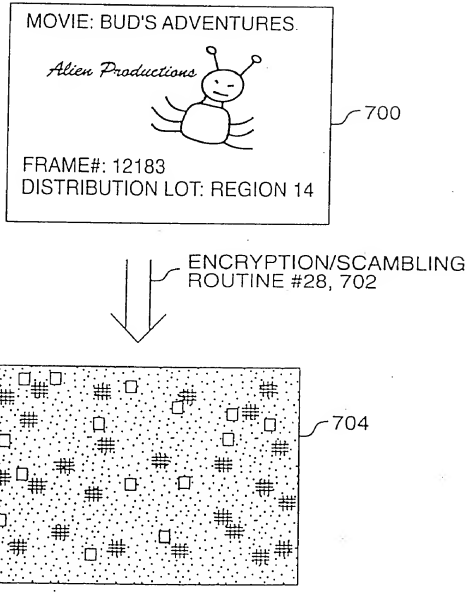
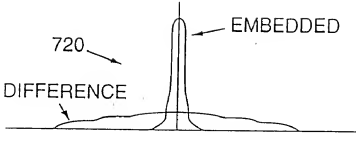

624
AUDIO VALID COUNTER
FLAG VALID SIGNAL
508
600
SIGNAL ONE
599
BEAT DETECTION
622
.05S DIGITAL DELAY
599
.05S DIGITAL DELAY
620
.05S DIGITAL DELAY
.05S DIGITAL DELAY
502
DETECTION FLAG

FIG. 13

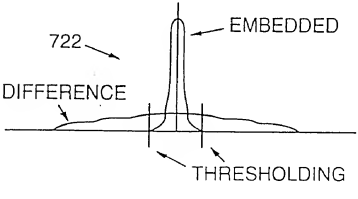


PSEUDO-RANDOM MASTER SNOWY IMAGE
(SCALED DOWN AND ADDED TO FRAME 12183)

FIG. 14



MEAN-REMOVED HISTOGRAMS OF DIFFERENCE SIGNAL AND KNOWN EMBEDDED CODE SIGNAL



MEAN-REMOVED HISTOGRAMS OF FIRST DERIVATIVES (OR SCALER GRADIENTS IN CASE OF AN IMAGE)

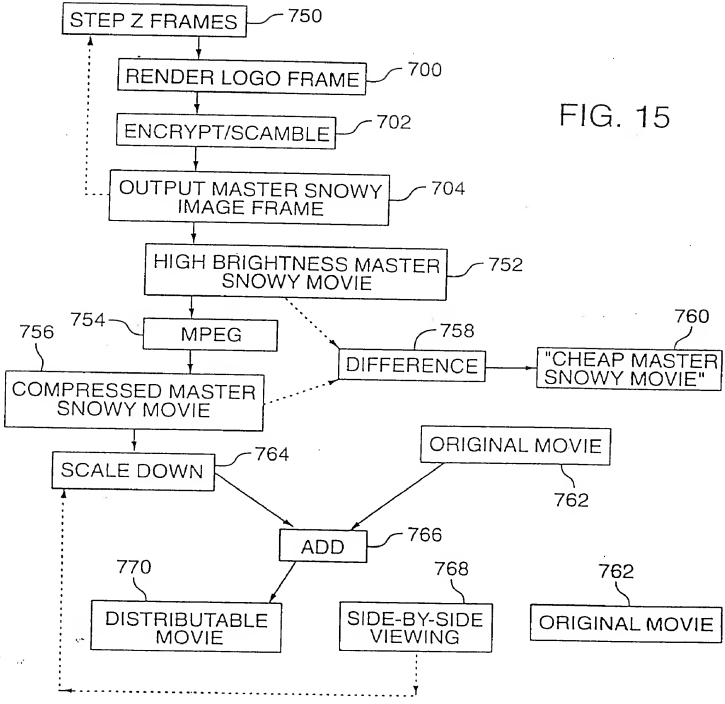

STEP Z FRAMES
750
RENDER LOGO FRAME
700
ENCRYPT/SCAMBLE
702
OUTPUT MASTER SNOWY IMAGE FRAME
704
HIGH BRIGHTNESS MASTER SNOWY MOVIE
752
754
MPEG
756
COMPRESSED MASTER SNOWY MOVIE
758
DIFFERENCE
760
"CHEAP MASTER SNOWY MOVIE"
ORIGINAL MOVIE
762
SCALE DOWN
764
ADD
766
770
DISTRIBUTABLE MOVIE
768
SIDE-BY-SIDE VIEWING
762
ORIGINAL MOVIE

FIG. 15

FIG. 16

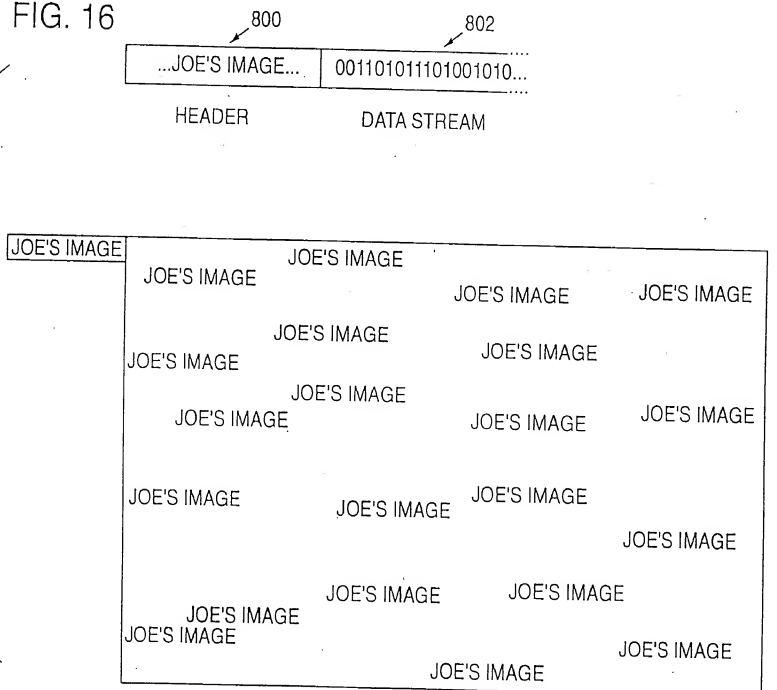
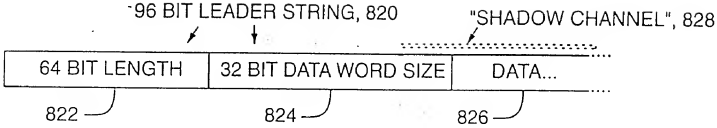

800
802
...JOE'S IMAGE...
00110101110100101010...
HEADER
DATA STREAM
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE
JOE'S IMAGE

FIG. 17



UNIVERSAL EMPIRICAL DATA FORMAT

FIG. 18

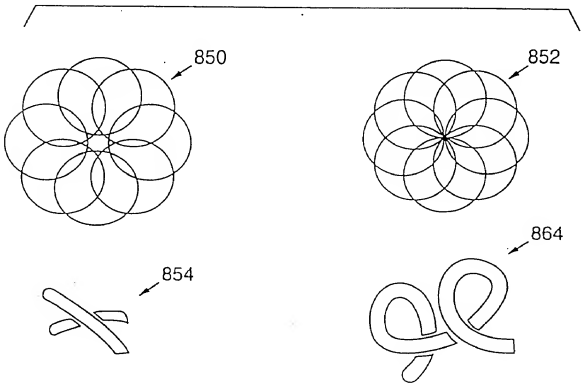
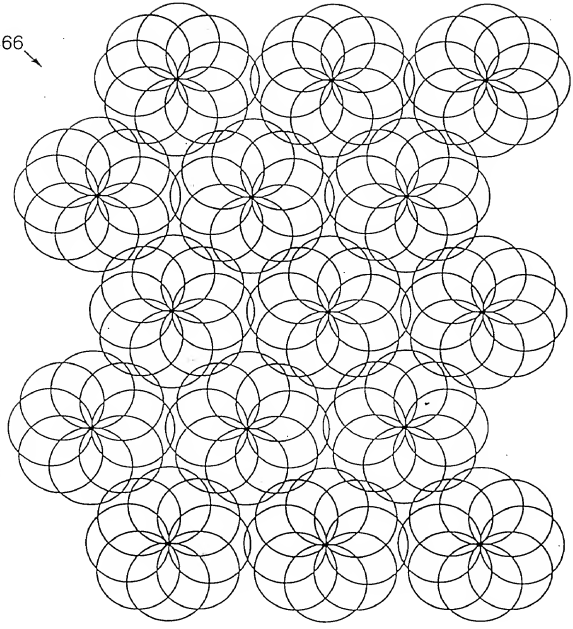


FIG. 19



QUEST FOR MOSAICED KNOT PATTERNS WHICH "COVER" AND ARE COEXTENSIVE WITH ORIGINAL IMAGE;
ALL ELEMENTAL KNOT PATTERNS CAN CONVEY THE SAME INFORMATION, SUCH AS A SIGNATURE, OR EACH CAN CONVEY A NEW MESSAGE IN A STEGANOGRAPHIC SENSE

FIG. 20

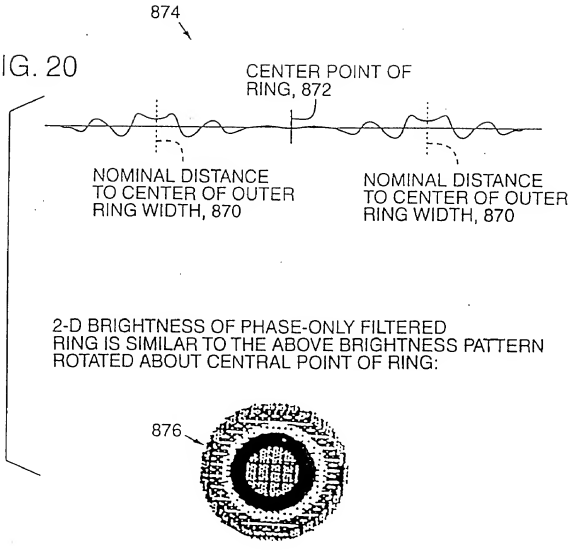
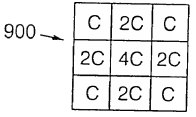

874
CENTER POINT OF RING, 872
NOMINAL DISTANCE TO CENTER OF OUTER RING WIDTH, 870
NOMINAL DISTANCE TO CENTER OF OUTER RING WIDTH, 870
2-D BRIGHTNESS OF PHASE-ONLY FILTERED RING IS SIMILAR TO THE ABOVE BRIGHTNESS PATTERN ROTATED ABOUT CENTRAL POINT OF RING:
876

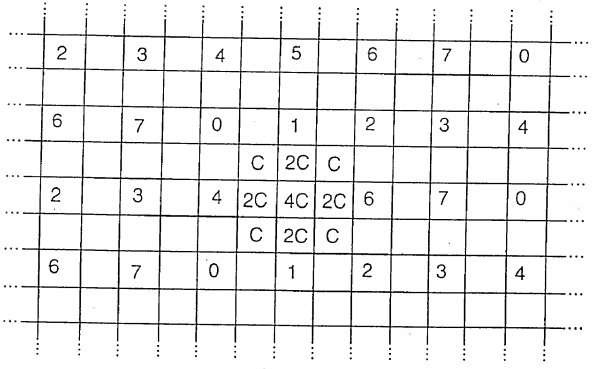
FIG. 21A



WHERE C = 1/16

ELEMENTARY BUMP
(DEFINED GROUPING OF PIXELS WITH WEIGHT VALUES)

FIG. 21B



EXAMPLE OF HOW MANY ELEMENTARY BUMPS, 900, WOULD BE ASSIGNED LOCATIONS IN AN IMAGE, AND THOSE LOCATIONS WOULD BE ASSOCIATED WITH A CORRESPONDING BIT PLANE IN THE N-BIT WORD, HERE TAKEN AS N=8 WITH INDEXES OF 0-7. ONE LOCATION, ASSOCIATED WITH BIT PLANE "5", HAS THE OVERLAY OF THE BUMP PROFILE DEPICTED.

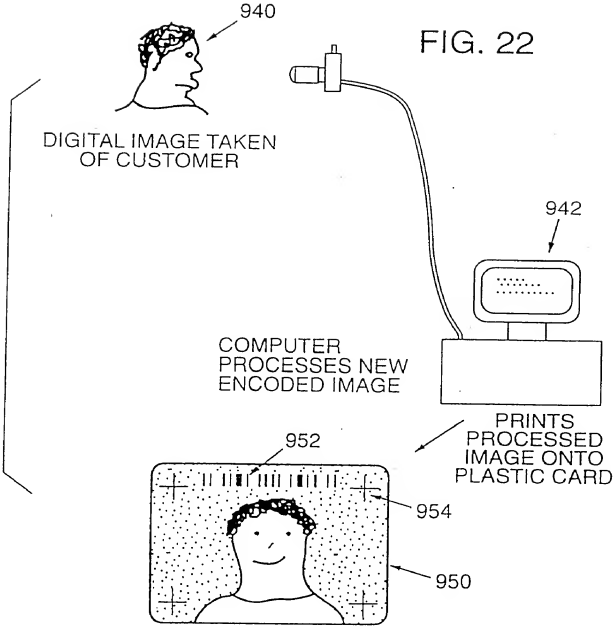
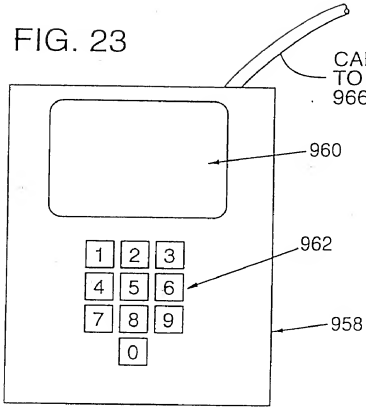

940
DIGITAL IMAGE TAKEN OF CUSTOMER
942
COMPUTER PROCESSES NEW ENCODED IMAGE
PRINTS PROCESSED IMAGE ONTO PLASTIC CARD
952
954
950

FIG. 22

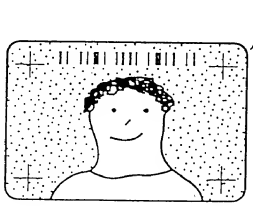
FIG. 23



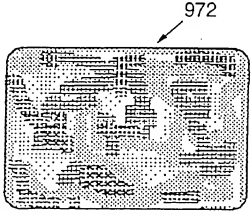
CONTAINS RUDIMENTARY OPTICAL SCANNER, MEMORY BUFFERS, COMMUNICATIONS DEVICES, AND MICROPROCESSOR

CONSUMER MERELY PLACES CARD INTO WINDOW AND CAN, AT THEIR PREARRANGED OPTION, EITHER TYPE IN A PERSONAL IDENTIFICATION NUMBER (PIN, FOR ADDED SECURITY) OR NOT. THE TRANSACTION IS APPROVED OR DISAPPROVED WITHIN SECONDS.

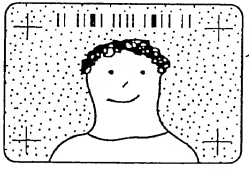
FIG. 24



ORIGINAL DIGITAL IMAGE WITH BARCODE AND FIDUCIALS ADDED



COMPUTER GENERATES MASTER SNOWY IMAGE WHICH IS GENERALLY ORTHOGONAL TO ORIGINAL IMAGE AT LEFT



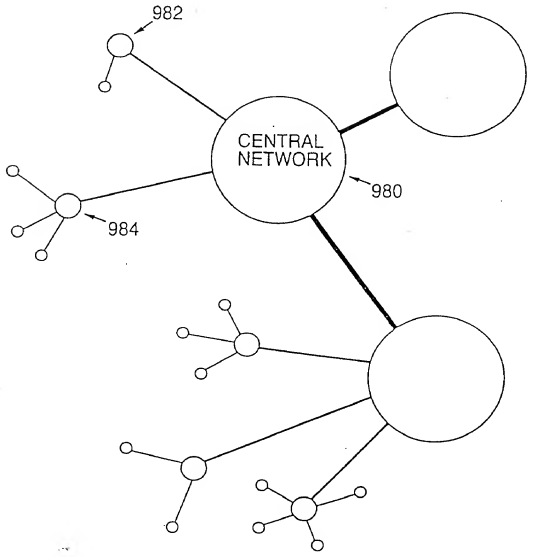
COMBINED TO FORM PERSONAL CASH CARD

FIG. 25 TYPICAL TRANSACTION STEPS

1. READER SCANS IMAGE ON CARD, STORES IN MEMORY, EXTRACTS PERSON'S ID
2. OPTIONAL: USER KEYS IN PIN NUMBER
3. READER CALLS CENTRAL ACCOUNT DATA NETWORK, HANDSHAKES
4. READER SENDS ID, (PIN), MERCHANT INFORMATION, AND REQUESTED TRANSACTION AMOUNT TO CENTRAL NETWORK
5. CENTRAL NETWORK VERIFIES ID, PIN, MERCHANT INFO, AND ACCOUNT BALANCE
6. IF OK, CENTRAL NETWORK GENERATES TWENTY-FOUR SETS OF SIXTEEN DISTINCT RANDOM NUMBERS, WHERE THE RANDOM NUMBERS ARE INDEXES TO A SET OF 64K ORTHOGONAL SPATIAL PATTERNS
7. CENTRAL NETWORK TRANSMITS FIRST OK, AND THE SETS OF RANDOM NUMBERS
8. READER STEPS THROUGH THE TWENTY-FOUR SETS
   8A. READER ADDS TOGETHER SET OF ORTHOGONAL PATTERNS
   8B. READER PERFORMS DOT PRODUCT OF RESULTANT PATTERN AND CARD SCAN, STORES RESULT
9. READER TRANSMITS THE TWENTY-FOUR DOT PRODUCT RESULTS TO CENTRAL NETWORK
10. CENTRAL NETWORK CHECKS RESULTS AGAINST MASTER
11. CENTRAL NETWORK SENDS FINAL APPROVAL OR DENIAL
12. CENTRAL NETWORK DEBITS MERCHANT ACCOUNT, CREDITS CARD ACCOUNT

FIG. 26

THE NEGLIGIBLE-FRAUD CASH CARD SYSTEM



A BASIC FOUNDATION OF THE CASH CARD SYSTEM IS A 24-HOUR INFORMATION NETWORK, WHERE BOTH THE STATIONS WHICH CREATE THE PHYSICAL CASH CARDS, 950, AND THE POINT-OF-SALES, 984, ARE ALL HOOKED UP TO THE SAME NETWORK CONTINUOUSLY

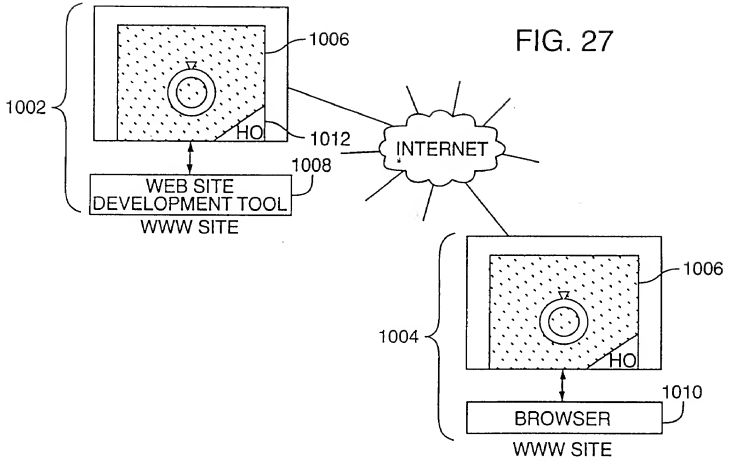

1002
1006
HO
1012
INTERNET
1008
WEB SITE
DEVELOPMENT TOOL
WWW SITE
1004
1006
HO
1010
BROWSER
WWW SITE

FIG. 27

FIG. 28

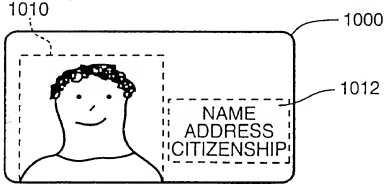

1010
1000
1012
NAME
ADDRESS
CITIZENSHIP

FIG. 27A

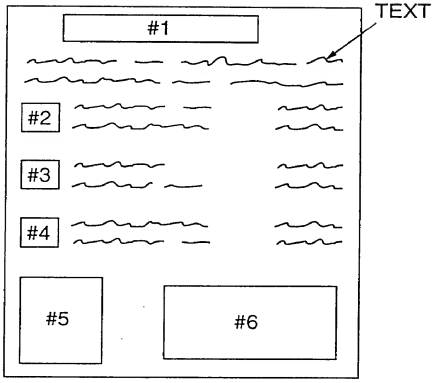


FIG. 27B

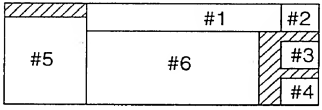
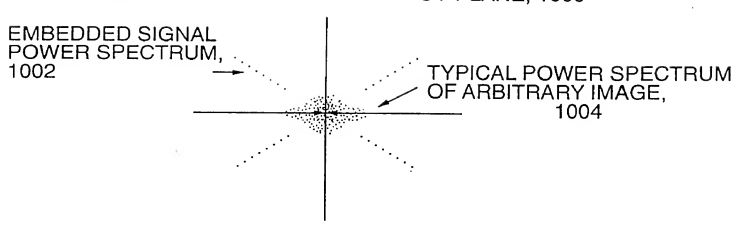
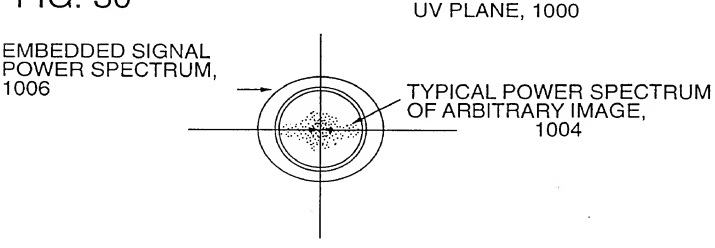


FIG. 29



NON-HARMONIC SPATIAL FREQUENCIES ALONG THE 45 DEGREE AXES, GIVING RISE TO A WEAVE-LIKE CROSS-HATCHING PATTERN IN THE SPATIAL DOMAIN

FIG. 30



NON-HARMONIC CONCENTRIC CIRCLES IN UV PLANE, WHERE PHASE HOPS QUASI-RANDOMLY ALONG EACH CIRCLE, GIVING RISE TO PSEUDO RANDOM LOOKING PATTERNS IN THE SPATIAL DOMAIN

FIG. 29A

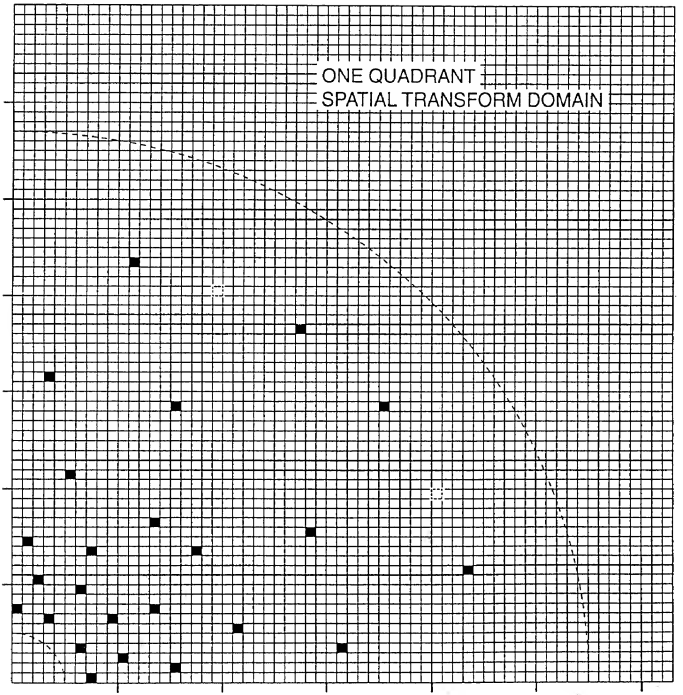
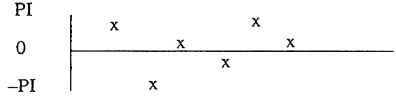
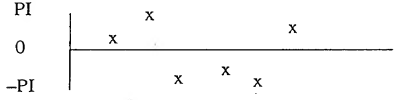


FIG. 31A



PHASE OF SPATIAL FREQUENCIES ALONG FORWARD 45 DEGREE AXES, 1008

FIG. 31B

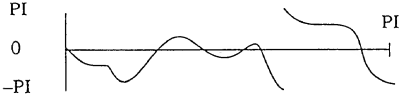


PHASE OF SPATIAL FREQUENCIES ALONG BACKWARD 45 DEGREE AXES, 1010

FIG. 32A

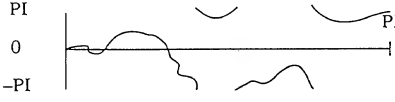
PHASE OF SPATIAL FREQUENCIES ALONG FIRST CONCENTRIC RING, 1012

FIG. 32B



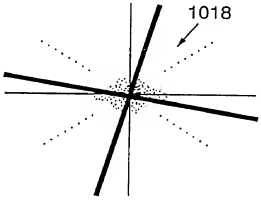
PHASE OF SPATIAL FREQUENCIES ALONG SECOND CONCENTRIC RING, 1014

FIG. 32C



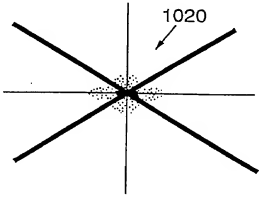
PHASE OF SPATIAL FREQUENCIES ALONG THIRD CONCENTRIC RING, 1016

FIG. 33A



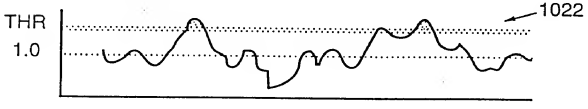
ANGLE A

FIG. 33B



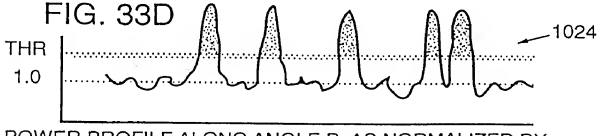
ANGLE B

FIG. 33C



POWER PROFILE ALONG ANGLE A, AS NORMALIZED BY ITS OWN MOVING AVERAGE; ONLY A MINIMAL AMOUNT EXCEEDS THRESHOLD, GIVING A SMALL INTEGRATED VALUE

FIG. 33D



POWER PROFILE ALONG ANGLE B, AS NORMALIZED BY ITS OWN MOVING AVERAGE; THIS FINDS STRONG ENERGY ABOVE THE THRESHOLD

FIG. 33E

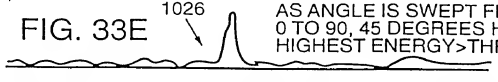


FIG. 34A

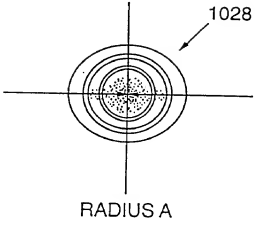


FIG. 34B

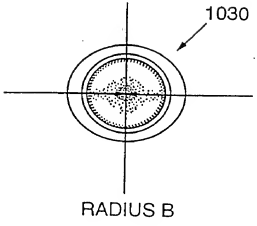


FIG. 34C

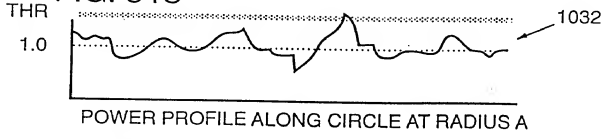


FIG. 34D

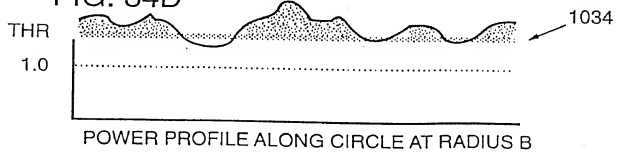


FIG. 34E

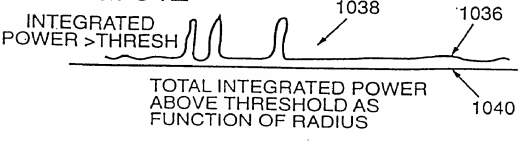
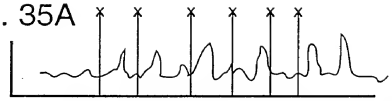
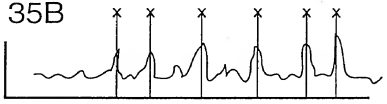


FIG. 35A



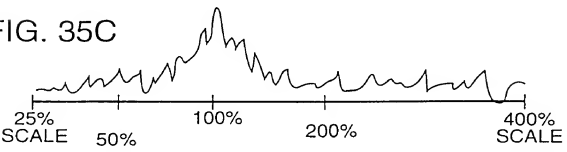
SCALE = A; ADD ALL POWER VALUES AT THE "KNOWN" FREQUENCIES", 1042

FIG. 35B



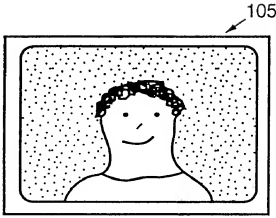
SCALE = B; ADD ALL POWER VALUES AT THE "KNOWN" FREQUENCIES", 1044

FIG. 35C



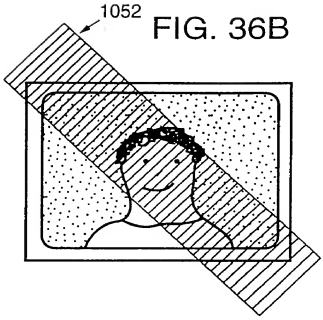
"SCALED-KERNEL" BASED MATCHED FILTER; PEAK IS WHERE THE SCALE OF THE SUBLIMINAL GRID WAS FOUND, 1046

FIG. 36A



ARBITRARY ORIGINAL IMAGE
IN WHICH SUBLIMINAL
GRATICULES MAY HAVE BEEN PLACED

FIG. 36B



"COLUMN SCAN"
IS APPLIED ALONG A
GIVEN ANGLE THROUGH
THE CENTER OF THE
IMAGE

FIG. 36C

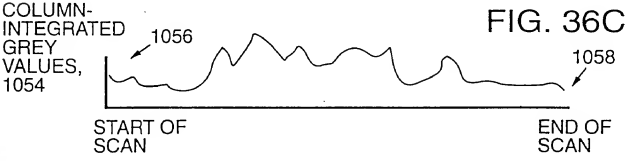
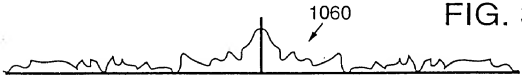


FIG. 36D



MAGNITUDE OF FOURIER TRANSFORM OF SCAN DATA

FIG. 37

PROCESS STEPS

1. SCAN IN PHOTOGRAPH
2. 2D FFT
3. GENERATE 2D POWER SPECTRUM, FILTER WITH E.G. 3X3 BLURRING KERNEL
4. STEP ANGLES FROM 0 DEGREES THROUGH 90 (1/2 DEG)
5. GENERATE NORMALIZED VECTOR, WITH POWER VALUE AS NUMERATOR, AND MOVING AVERAGED POWER VALUE AS DENOMINATOR
6. INTEGRATE VALUES AS SOME THRESHOLD, GIVING A SINGLE INTEGRATED VALUE FOR THIS ANGLE
7. END STEP ON ANGLES
8. FIND TOP ONE OR TWO OR THREE "PEAKS" FROM THE ANGLES IN LOOP 4, THEN FOR EACH PEAK...
9. STEP SCALE FROM 25% TO 400%, STEP ~1.01
10. ADD THE NORMALIZED POWER VALUES CORRESPONDING TO THE 'N' SCALED FREQUENCIES OF STANDARD
11. KEEP TRACK OF HIGHEST VALUE IN LOOP
12. END LOOP 9 AND 8, DETERMINE HIGHEST VALUE
13. ROTATION AND SCALE NOW FOUND
14. PERFORM TRADITIONAL MATCHED FILTER TO FIND EXACT SPATIAL OFFSET
15. PERFORM ANY "FINE TUNING" TO PRECISELY DETERMINE ROTATION, SCALE, OFFSET

FIG. 38

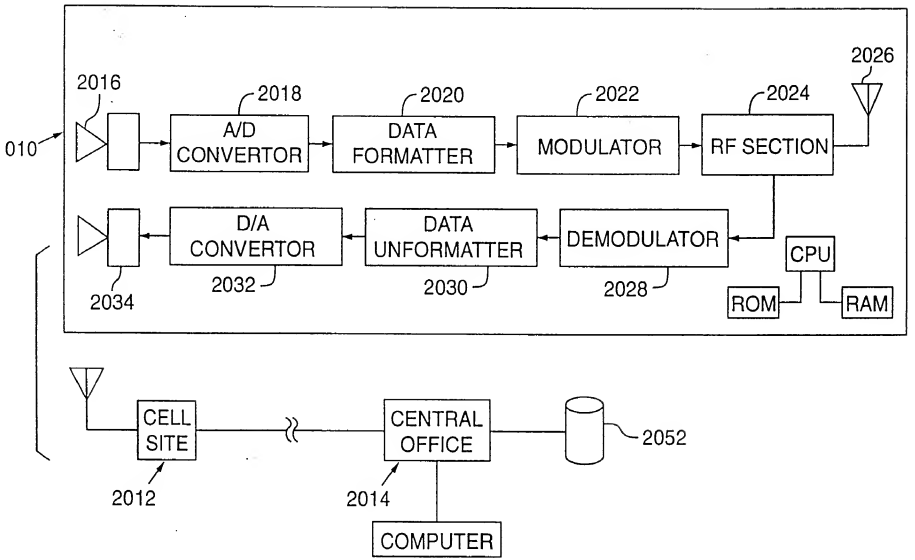

010
2016
2018
A/D CONVERTOR
2020
DATA FORMATTER
2022
MODULATOR
2024
RF SECTION
2026
D/A CONVERTOR
2032
DATA UNFORMATTER
2030
DEMODULATOR
2028
2034
CPU
ROM
RAM
CELL SITE
2012
CENTRAL OFFICE
2014
2052
COMPUTER

FIG. 39

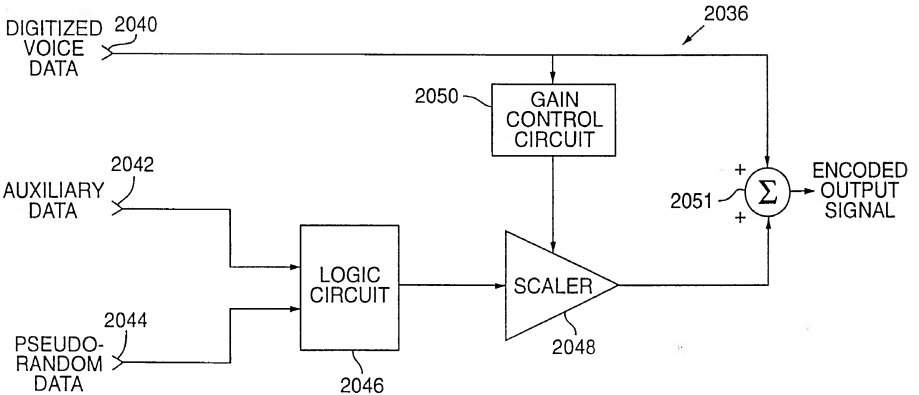

DIGITIZED VOICE DATA
2040
2036
2050
GAIN CONTROL CIRCUIT
2042
AUXILIARY DATA
+
2051
Σ
+
ENCODED OUTPUT SIGNAL
LOGIC CIRCUIT
SCALER
2044
PSEUDO-RANDOM DATA
2048
2046

FIG. 40

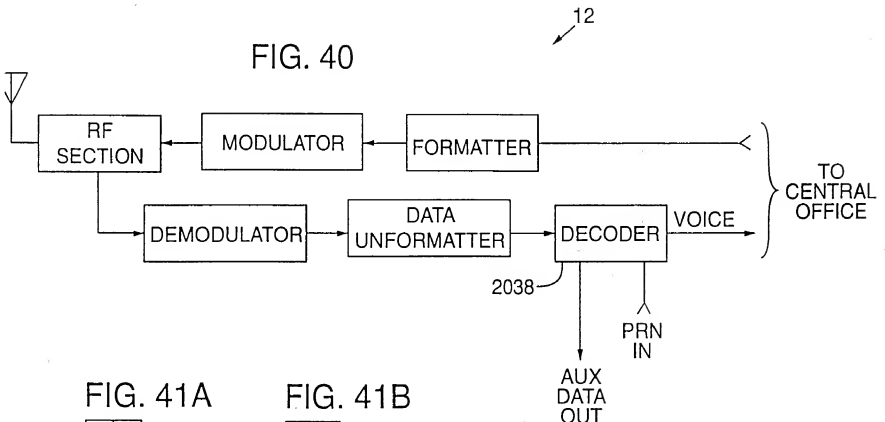


FIG. 41A

FIG. 41B

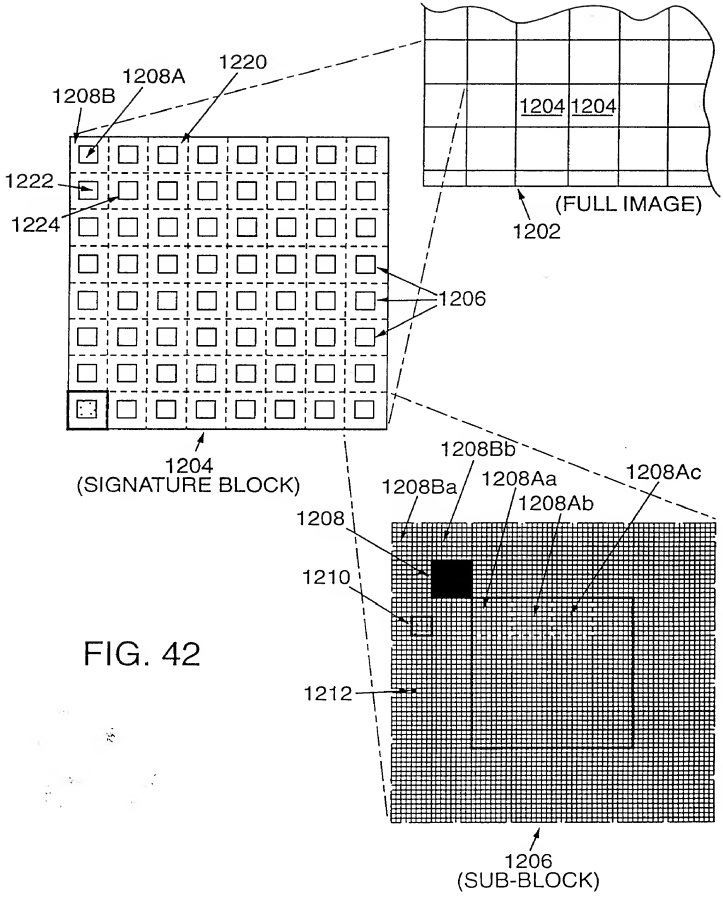
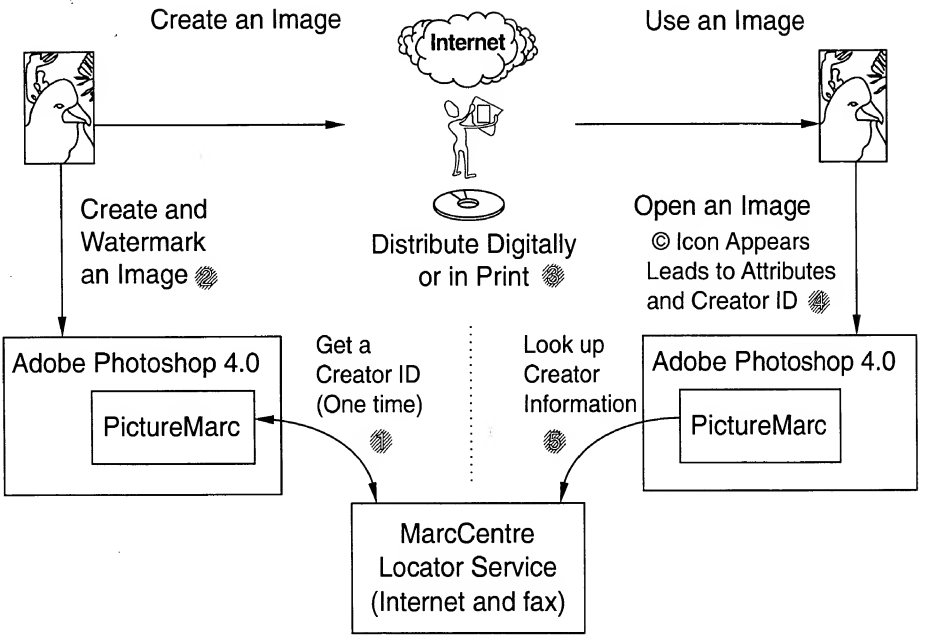

1220
1208A
1208B
1222
1224
1204 1204
(FULL IMAGE)
1202
1206
1204
(SIGNATURE BLOCK)
1208Bb
1208Ba
1208Aa
1208Ab
1208Ac
1208
1210
1212
1206
(SUB-BLOCK)

FIG. 42

FIG. 43


Create an Image
Internet
Use an Image
Create and
Watermark
an Image
Distribute Digitally
or in Print
Open an Image
© Icon Appears
Leads to Attributes
and Creator ID
Adobe Photoshop 4.0
PictureMarc
Get a
Creator ID
(One time)
Look up
Creator
Information
Adobe Photoshop 4.0
PictureMarc
MarcCentre
Locator Service
(Internet and fax)

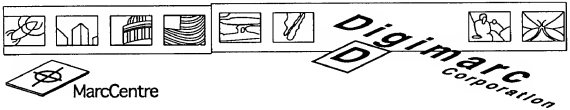


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FIG. 44

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Address
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Zip/Postal Code
Country
Phone Number
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Email Address
Your Home Page http://

FIG. 45

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( ) Don't show	( ) Don't show	( ) Don't show

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Please select your profession (one only).

(•) Photographer
( ) **Illustrator**
( ) Other

In order to communicate your primary area of focus or specialty to potential customers, please select one of the options from the list below -or- type in your own in the space next to "Custom Specialty"

Photographer (none)

Illustrator (none)

Custom Specialty

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( ) Not at this time.

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( ) American Express

Card Number **Name Shown on Card** **Expiration (MM/YY)**

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Part 1 Complete

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FIG. 46

FIG. 47

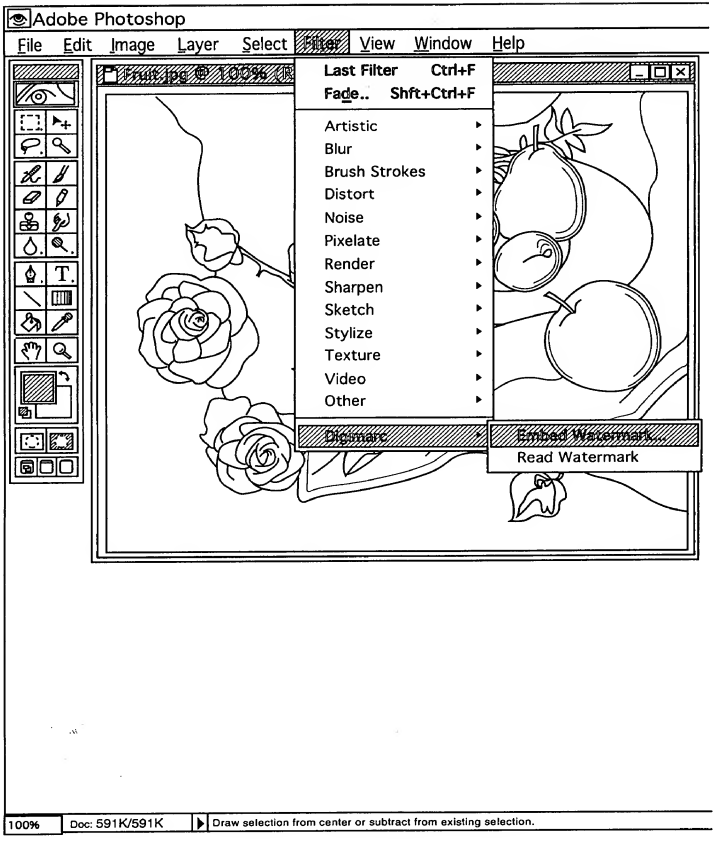

Adobe Photoshop
File Edit Image Layer Select Filter View Window Help
Fruit.jpg @ 100%
Last Filter Ctrl+F
Fade.. Shft+Ctrl+F
Artistic
Blur
Brush Strokes
Distort
Noise
Pixelate
Render
Sharpen
Sketch
Stylize
Texture
Video
Other
Digimarc
Embed Watermark...
Read Watermark
100%
Doc: 591K/591K
Draw selection from center or subtract from existing selection.

FIG. 48

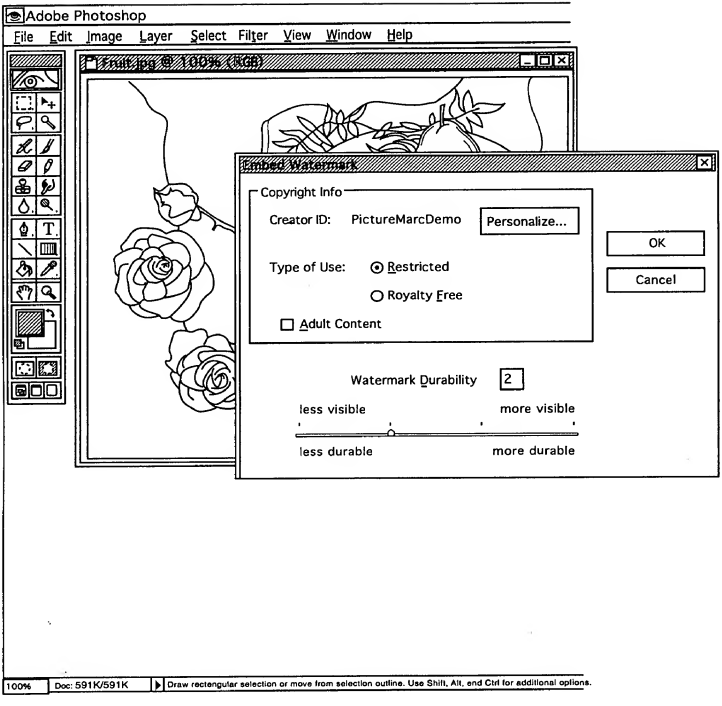

Adobe Photoshop
File Edit Image Layer Select Filter View Window Help
Fruit.jpg @ 100% (RGB)
Embed Watermark
Copyright Info
Creator ID: PictureMarcDemo
Personalize...
Type of Use: Restricted
Royalty Free
Adult Content
OK
Cancel
Watermark Durability 2
less visible
more visible
less durable
more durable
100%
Doc: 591K/591K
Draw rectangular selection or move from selection outline. Use Shift, Alt, and Ctrl for additional options.

FIG. 49

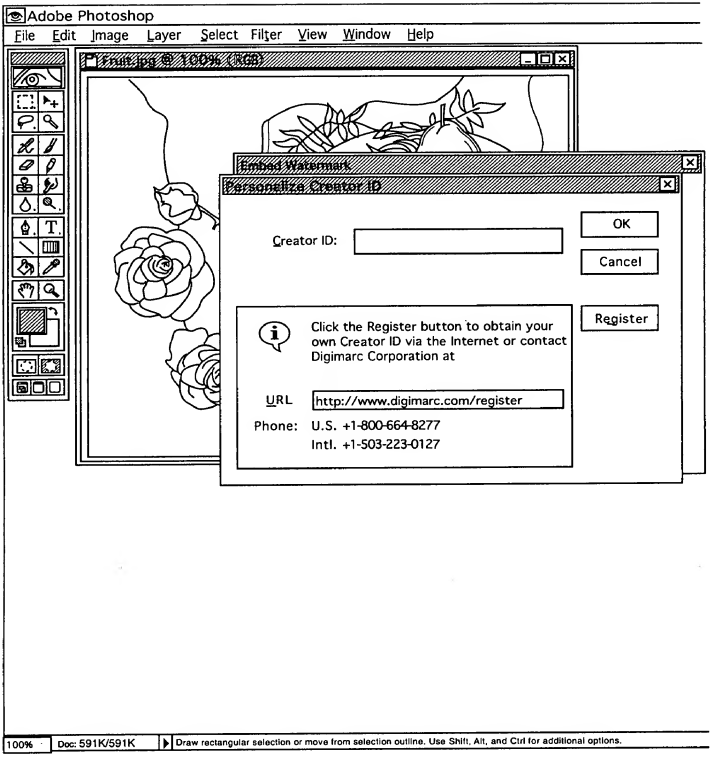

Adobe Photoshop
File Edit Image Layer Select Filter View Window Help
Fruit.jpg @ 100% (RGB)
Embed Watermark
Personalize Creator ID
Creator ID:
OK
Cancel
Register
Click the Register button to obtain your own Creator ID via the Internet or contact Digimarc Corporation at
URL
http://www.digimarc.com/register
Phone: U.S. +1-800-664-8277
Intl. +1-503-223-0127
100%
Doc: 591K/591K
Draw rectangular selection or move from selection outline. Use Shift, Alt, and Ctrl for additional options.

FIG. 50

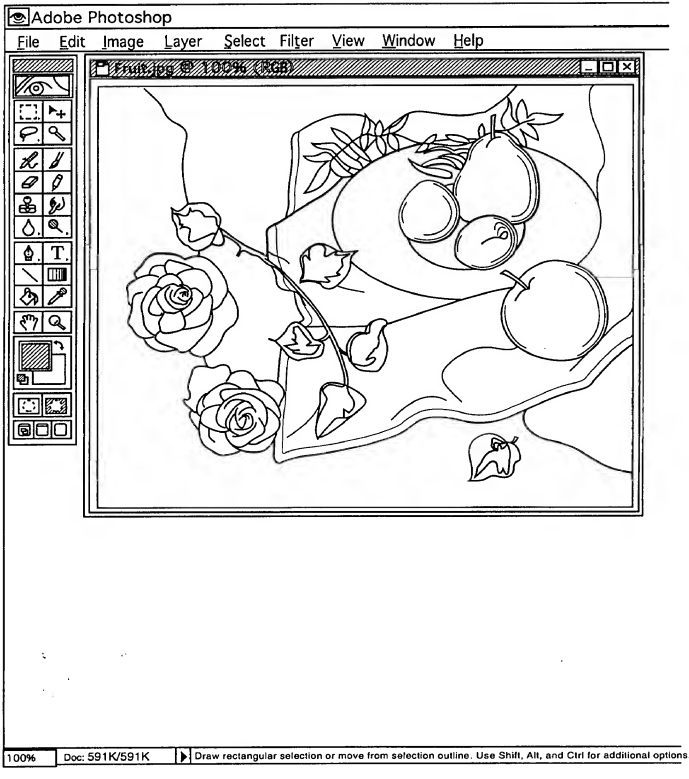

Adobe Photoshop
File Edit Image Layer Select Filter View Window Help
Fruit.jpg @ 100% (RGB)
100%
Doc: 591K/591K
Draw rectangular selection or move from selection outline. Use Shift, Alt, and Ctrl for additional options.

FIG. 51

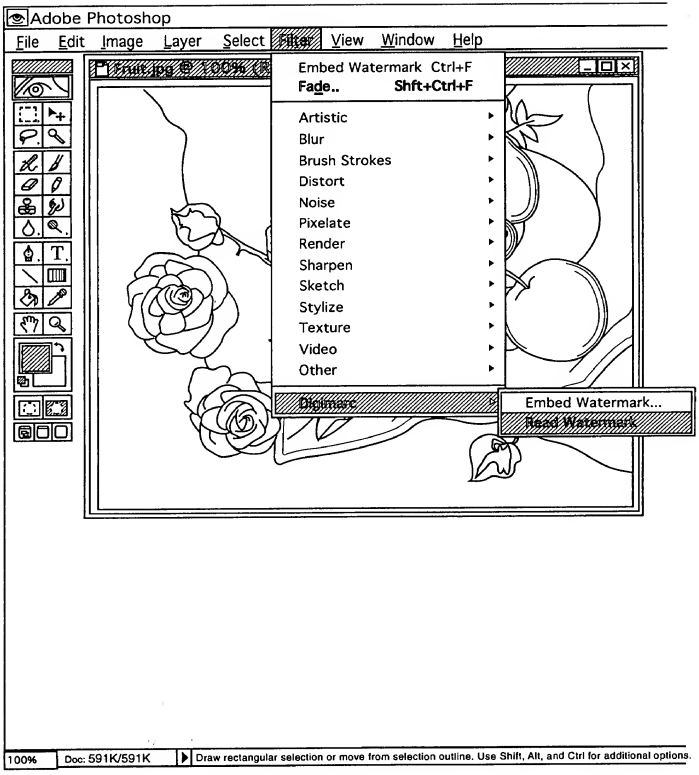

Adobe Photoshop
File Edit Image Layer Select Filter View Window Help
Embed Watermark Ctrl+F
Fade.. Shft+Ctrl+F
Artistic
Blur
Brush Strokes
Distort
Noise
Pixelate
Render
Sharpen
Sketch
Stylize
Texture
Video
Other
Digimarc
Embed Watermark...
Read Watermark
100%
Doc: 591K/591K
Draw rectangular selection or move from selection outline. Use Shift, Alt, and Ctrl for additional options.

FIG. 52

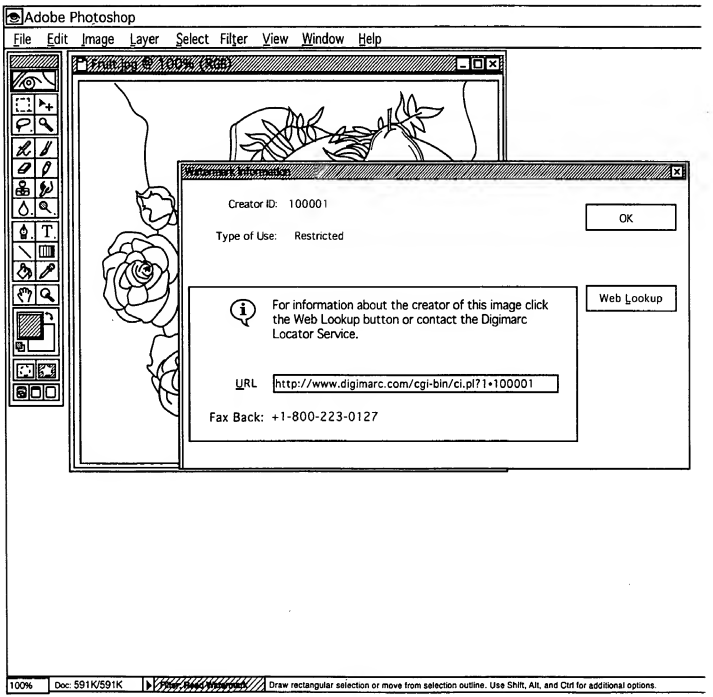

Adobe Photoshop
File Edit Image Layer Select Filter View Window Help
Fruit.jpg @ 100% (RGB)
Creator ID: 100001
Type of Use: Restricted
OK
For information about the creator of this image click the Web Lookup button or contact the Digimarc Locator Service.
Web Lookup
URL
http://www.digimarc.com/cgi-bin/ci.pl?1+100001
Fax Back: +1-800-223-0127
100%
Doc: 591K/591K
Draw rectangular selection or move from selection outline. Use Shift, Alt, and Ctrl for additional options.

FIG. 53

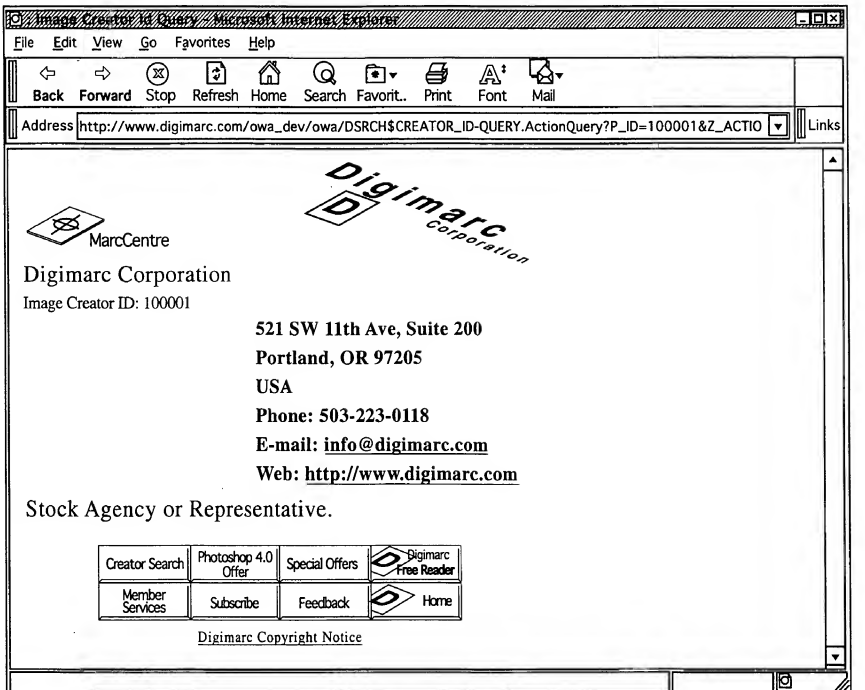


Image Creator ID Query - Microsoft Internet Explorer
File Edit View Go Favorites Help
Back Forward Stop Refresh Home Search Favorit.. Print Font Mail
Address http://www.digimarc.com/owa_dev/owa/DSRCH$CREATOR_ID-QUERY.ActionQuery?P_ID=100001&Z_ACTIO
Links
MarcCentre
Digimarc Corporation
Digimarc Corporation
Image Creator ID: 100001
521 SW 11th Ave, Suite 200
Portland, OR 97205
USA
Phone: 503-223-0118
E-mail: info@digimarc.com
Web: http://www.digimarc.com
Stock Agency or Representative.
Creator Search
Photoshop 4.0 Offer
Special Offers
Digimarc Free Reader
Member Services
Subscribe
Feedback
Home
Digimarc Copyright Notice

MarcCentre

Digimarc Corporation

MarcCentre Image Creator Search

Enter the Image Creator ID in the box below and press "Submit Search". If it is a valid ID, the contact information details will be listed.

Image Creator ID: [ ] Submit Search

If you want to search for specific image creators by a variety of criteria such as last name, specialy, city and/or state then press the "General Search" button below.

FIG. 54

General Search

Creator Search	Photoshop 4.0 Offer	Special Offers	Digimarc Free Reader
Member Services	Subscribe	Feedback	Home

Digimarc Copyright Notice

FIG. 55

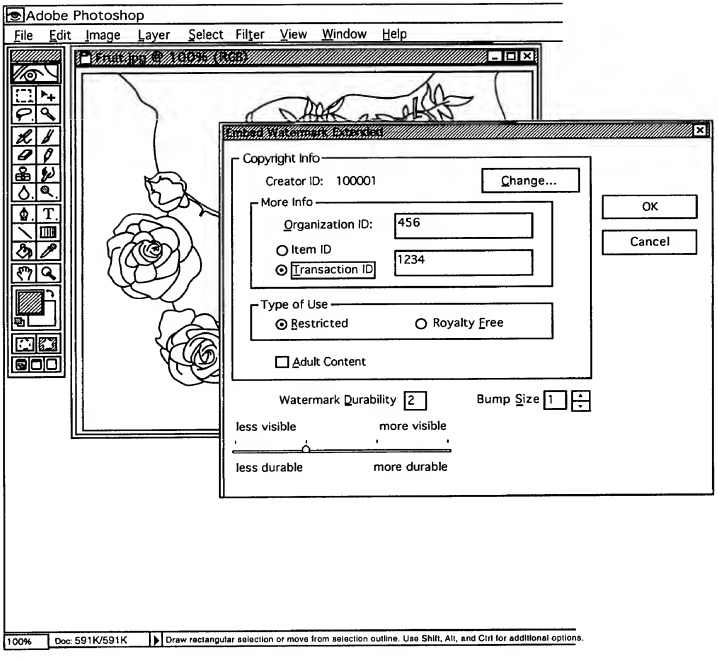

Adobe Photoshop
File Edit Image Layer Select Filter View Window Help
Embed Watermark Extended
Copyright Info
Creator ID: 100001
Change...
More Info
Organization ID: 456
Item ID
Transaction ID
1234
OK
Cancel
Type of Use
Restricted
Royalty Free
Adult Content
Watermark Durability 2
Bump Size 1
less visible
more visible
less durable
more durable
100%
Doc: 591K/591K
Draw rectangular selection or move from selection outline. Use Shift, Alt, and Ctrl for additional options.

FIG. 56

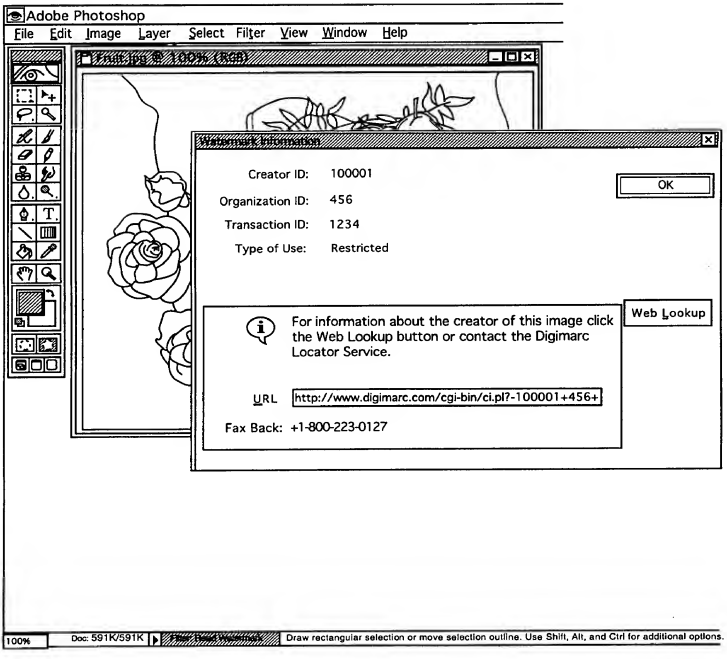

Adobe Photoshop
File Edit Image Layer Select Filter View Window Help
Fruit.jpg @ 100% (RGB)
Watermark Information
Creator ID: 100001
Organization ID: 456
Transaction ID: 1234
Type of Use: Restricted
OK
For information about the creator of this image click the Web Lookup button or contact the Digimarc Locator Service.
Web Lookup
URL http://www.digimarc.com/cgi-bin/ci.pl?-100001+456+
Fax Back: +1-800-223-0127
100%
Doc: 591K/591K
Draw rectangular selection or move selection outline. Use Shift, Alt, and Ctrl for additional options.

FIG. 57

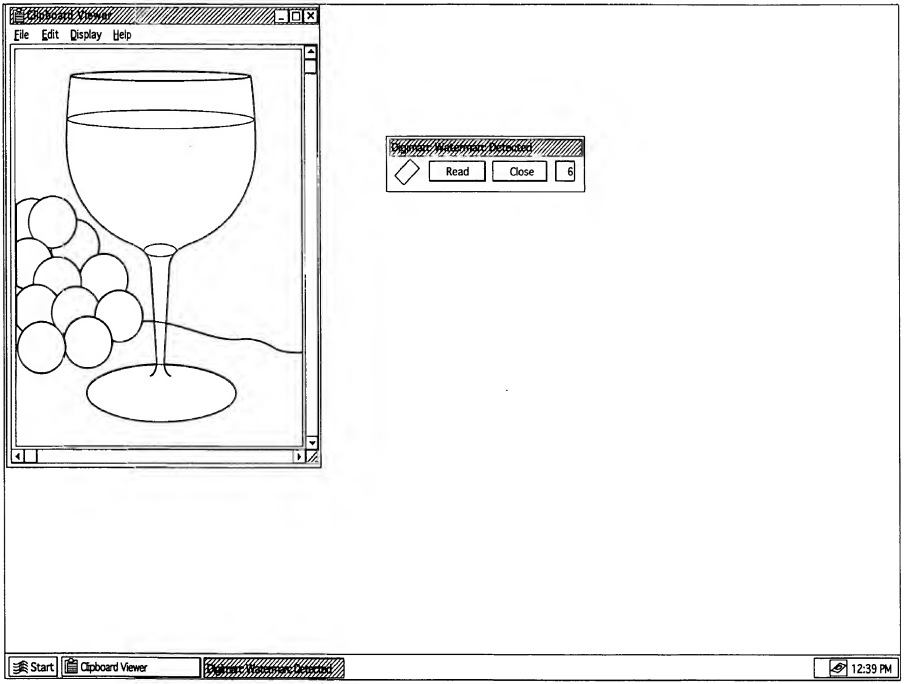

Clipboard Viewer
File Edit Display Help
Digimarc Watermark Detected
Read
Close
6
Start
Clipboard Viewer
Digimarc Watermark Detected
12:39 PM

FIG. 58

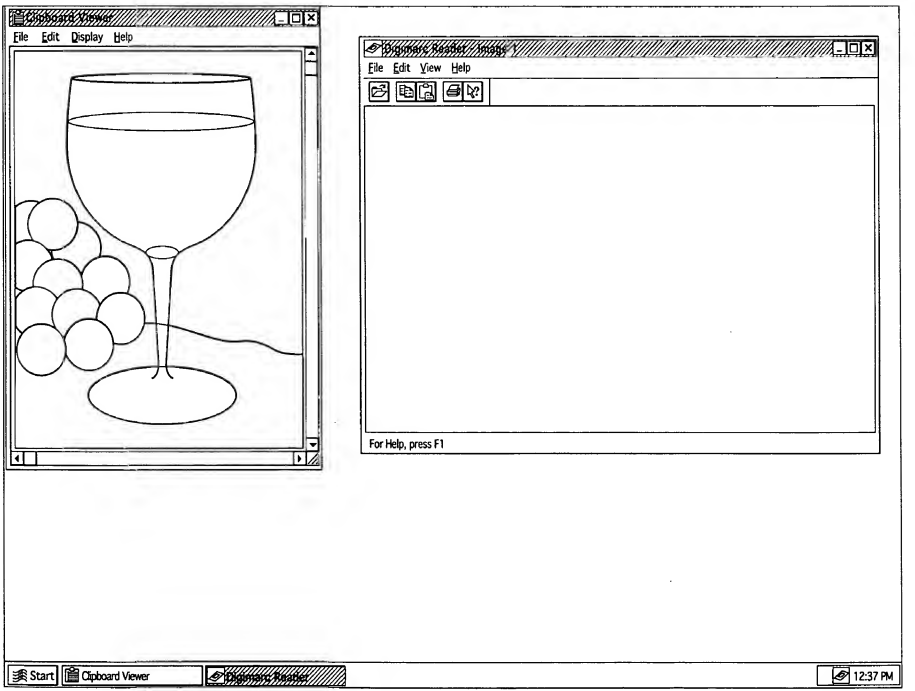
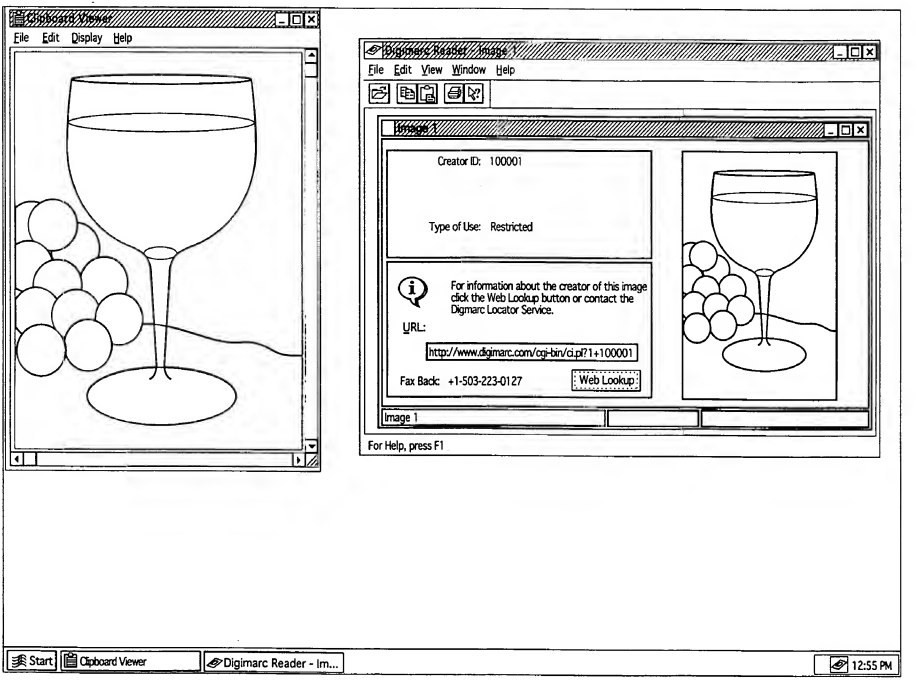

Clipboard Viewer
File Edit Display Help
Diagmars Reader - Image 1
File Edit View Help
For Help, press F1
Start
Clipboard Viewer
Diagmars Reader
12:37 PM

FIG. 59


Clipboard Viewer
File Edit Display Help
Digimarc Reader - Image 1
File Edit View Window Help
Image 1
Creator ID: 100001
Type of Use: Restricted
For information about the creator of this image click the Web Lookup button or contact the Digmarc Locator Service.
URL:
http://www.digimarc.com/cgi-bin/ci.pl?1+100001
Fax Back: +1-503-223-0127
Web Lookup:
Image 1
For Help, press F1
Start
Clipboard Viewer
Digimarc Reader - Im...
12:55 PM